

Appl. No. 10/660,084  
Amdt. dated November 17, 2004  
Reply to Office action dated August 17, 2004

### **REMARKS AND ARGUMENTS**

For the Examiner's convenience and clarity of purpose, Applicant has reprinted the substance of the Office Action in *10-point bolded and italicized font*. Applicant's arguments and remarks immediately follow in regular font.

*1. This application is in condition for allowance except for the following formal matters:*

Applicant thanks the Examiner for her efforts with this application.

*2. The drawings are objected to because:*

*(a) The boxes need to be labeled. For example, in Fig. 1, the box referenced, as 30 should be labeled "Rectifier" the box referenced, as 45 should be labeled "Filter", and so on for the remainder of the boxes and figures.*

Applicant has amended Figures 1, 2 and 3 by labeling each box with its appropriate name in accordance with Rule 83(a). No new matter has been added.

*(b) The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "115" has been used to designate both a DC bus and a rectifier interface.*

Applicant has amended Figure 3 by changing the reference numeral 115 for the rectifier interface to reference numeral 117. The specification has been conformed to this change as well (see paragraph [0013]). No new matter has been added.

*(c) Figure 1 should be designated by a legend such as —Prior Art— because only that which is old is illustrated. See MPEP § 608.02(g).*

Applicant has amended Figure 1 by adding a "Prior Art" legend.

*Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet*

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*should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.*

The amended drawing sheets submitted herewith are intended to comply with the Examiner's instructions.

**3.      *The abstract of the disclosure is objected to because it contains less than 50 words. Applicant is reminded of the proper language and format for an abstract of the disclosure.***

*The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.*

*The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.*

*Correction is required. See MPEP § 608.01(b).*

Applicant has amended the Abstract of the Disclosure, which now contains 50 words or more.

**4.      *Claims 1 and 2 are objected to because of the following informalities:***

***(a) The limitation "a common 3 phase input" is not a structural limitation.***

***(b) The limitation "a common 3 phase variable frequency pulse-width modulated output" is not a structural limitation.***

*Appropriate correction is required.*

The objection is respectfully traversed. Applicant disagrees that the limitations "a

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common 3 phase input” and “a common 3 phase variable frequency pulse-width-modulated output” are not structural limitations in the context of claims 1 and 2. “Structure” is defined as

“**2a:** something (as a building) that is constructed **b:** something arranged in a definite pattern of organization ...”

Webster’s New Collegiate Dictionary (1977). Further “input” is defined as

“**1:** something put in: as ...**b:** power or energy put into a machine or system for storage, conversion in kind or conversion of characteristics usu. with the intent of sizable recovery in the form of output.”

*Id.* “Output” is similarly defined.

Both a “3-phase, electrical input” and a “3-phase variable frequency pulse-width-modulated output” are something constructed by man and their properties are typically arranged in a definite pattern of organization. Moreover, each has structure that a person can feel, *e.g.*, when electrocuted. No amendment to either claim has been made in response to this objection. Applicant respectfully requests reconsideration in light of these arguments.

***5. Claims 1 and 2 would be allowable if rewritten or amended to overcome the claim objections, set forth in this Office action.***

Applicant thanks the Examiner for the favorable consideration given claims 1 and 2. While these claims have not been amended in response to the Examiner’s objections, Applicant’s submit that claims 1 and 2 are allowable for the reasons set forth above.

***The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach or make obvious a plurality of integrated AC motor control systems, each system comprising an input rectifier section, a DC bus section an output inverter section and a controller section, and a parallel controller interfaces with each integrated control system controller.***

Applicant agrees with the accuracy of the Examiner’s statement regarding what the prior art fails to teach or make obvious.

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6. *The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are: Kawashima (JP I 0066372A), Chambers et al (US 6,469,469), Ichikawa et al (US 6229722), James (US 6020726), Stith (US 3967173), Yoshikawa et al (US 6492790), Toda et al (US 5712540), Change (US 5909367), Opal et al (US 5638263), Barrett (US 5668707), Hayashi et al (US 200301 98065A1), Abbondanti (US 4099109), Konecny et al (US 5909098), Konecny et al (US 5844397), Knox et al (US 4491778), Kumar (US 5170105), Kumar (US 20020177929), Young et al (US 4164785), Tsukahara (US 4879639), Hirata (US 4736148).*

No response by Applicant is necessary.

### **Amendment to the Specification**

In addition to the amendments discussed above, several typographical and structural errors have been corrected. In addition, a reference to "inverter interface 120" has been changed to "inverter interface 125" in paragraph [0013]. Paragraphs [0005] and [0006], which comprise the Summary, have been modified to better summarize the appended claims. No new matter has been added.

### **Amendment of Claims 1 and 2**

A review of the pending claims revealed that they could be presented in a manner that more clearly points out and distinctly claims what Applicant desires to protect. Claims 1 and 2 are amended herein not because of any objection made in the Office Action, but for clarity of purpose. The amendments made to claims 1 and 2 are not narrowing amendments and, in fact, may broaden the literal scope of one or more of the claims. Also, the amendments are not made for a reason related to patentability.

### **New Claims 3-20**

Applicant has presented new independent claims 3 and 12, which are based on, but not identical to, existing claims 1 and 2. Applicant submits that these new

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independent claims better present the application for allowance. New claims 4-11 depend from new claim 3 and new claims 13-20 depend from new claim 12. Applicant respectfully requests that these new claims be entered and the application be processed for allowance of all claims.

**Conclusion**

A one-month extension fee in the amount of \$110 is thought to be due for this paper and its related submissions. If Applicant's belief is in error and one or more fees are due, the Commissioner is hereby authorized to change any fee necessary to make this and related papers timely and effective to deposit account 12-1322 (021830.002US).

Applicant thanks the Examiner for her consideration and effort on this file. Applicant submits that this application is now in condition for allowance and respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

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**Amendments to the Drawings:**

The attached sheets of drawings include changes to Figs. 1, 2 and 3. Figure 1 has been amended by adding a "Prior Art" legend and by labeling boxes 30, 45, 50 and 70. Figure 2 has been amended by labeling boxes 110, 120, 140 and 150. Figure 3 has been amended by labeling boxes 230, 240, 280, 290, 310, 320, 340 and 400.

Attachment: Replacement Sheets (informal)  
Annotated Sheets Showing Changes

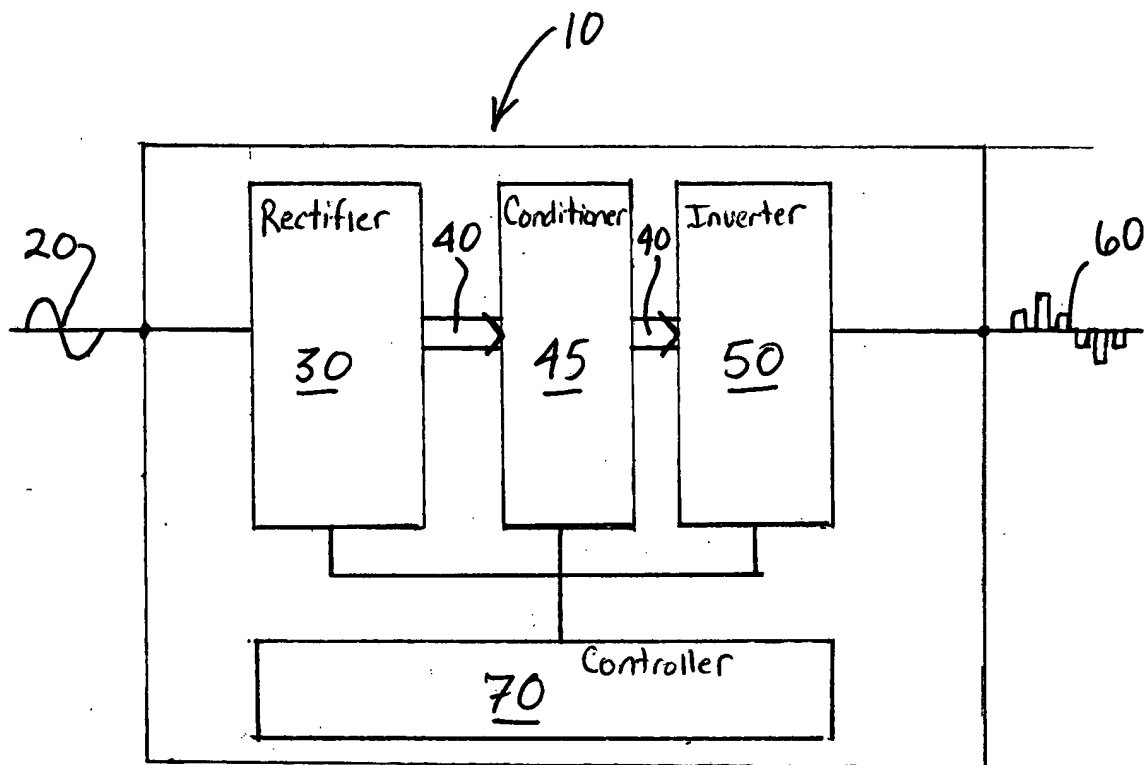


FIG. 1 (PRIOR ART)

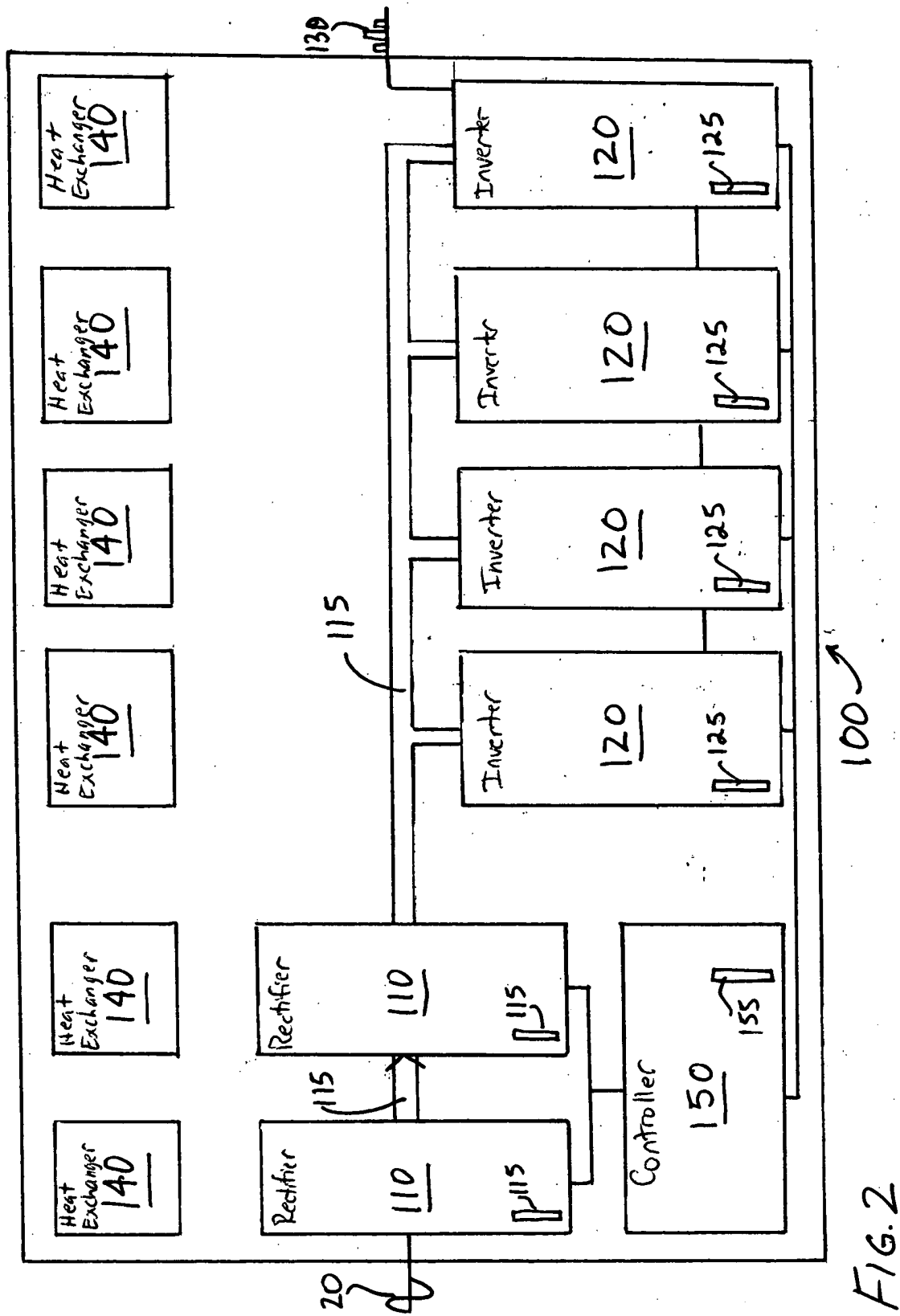


FIG. 2



Annotated Marked-Up Drawing  
Sheet 3 of 3

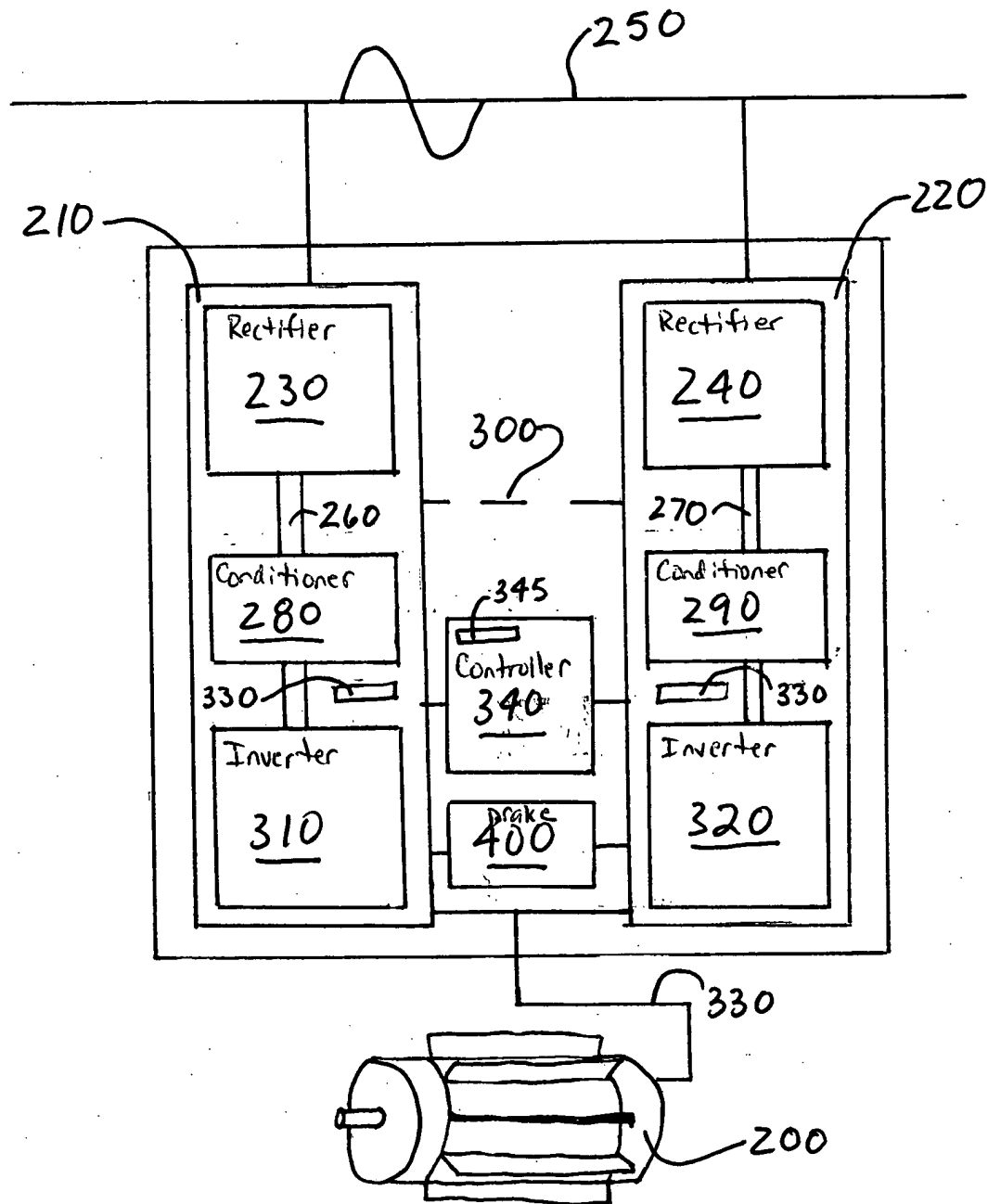


FIG. 3